

Specific Plans: (Day to day listing)

Sunday, July 31, 1994

Morning: 1. The Action and Regulation Lipid Digestive Enzymes
Session Leader: *Howard Brockman, Hormel Institute.*
9:00 am *Howard Brockman, Hormel Institute, U.S.A. - The role of lipid/aqueous interface on the rate of lipolysis*
9:35 am *Robert Verger, C.N.R.S., Marseille, France - Gastric and pancreatic lipases: biochemical and physiological studies*
10:10 am *David Hui, Univ. of Cincinnati, U.S.A. - Genetic regulation of cholesterol esterase (carboxyl ester hydrolase)*
10:45 am Break
11:00 am *Patsy M. Brannon, Univ. of Arizona, U.S.A. - Dietary and hormonal regulation of pancreatic lipase gene expression*
11:35 am *Eugene P. DiMagno, Mayo Clinic, U.S.A. - Secretion and fate of lipase and colipase in healthy humans and in chronic pancreatitis*

Evening: 2. Micellar and non-micellar uptake of dietary lipids
Section Leader: *Martin Carey, Harvard Medical School, U.S.A.*
7:30 pm *John W. Nichols, Emory Univ., U.S.A. - Mechanisms of lysophospholipid and bile salt absorption in the small intestine*
8:00 pm *Wolfgang Stremmel, Univ. of Düsseldorf, F.R.G. - The role of the brush border fatty acid binding protein on intestinal fat absorption*
8:30 pm Break
8:45 pm *Martin Carey, Harvard Medical School, U.S.A. - Micellar and non-micellar uptake of 2-monoglyceride and fatty acid*

Monday, August 1

Morning 3. Intracellular transport and metabolism of lipids
Section Leader: *Charles M. Mansbach, Univ. of Tennessee*
9:00 am *Judith Storch, Harvard Sch. of Public Health, U.S.A. - The role of fatty acid binding protein in intracellular lipid transport.*
9:35 am *Arnis Kuksis, Univ. of Toronto, Canada - Apparent convergence (at 2-monoglyceride level) of phosphatidic acid and 2-monoglyceride pathways of synthesis of chylomicron triglyceride*
10:10 am *Charles M. Mansbach, Univ. of Tennessee, U.S.A. - Origin of endogenous acyl groups in intestinal triglyceride*
10:45 am Break
11:00 am *Rosalind Coleman, Univ. of North Carolina, U.S.A. - The role of monoacylglycerol transferase in retaining essential fatty acids*
11:35 am *Allen R. Place, Maryland Biotechnology Institute, U.S.A. - Wax ester absorption and metabolism by sea mammals: living off the fat of the sea*

Evening 4. Intestinal apolipoprotein synthesis and metabolism
Section Leader: *Robert M. Glickman, Harvard Medical School*
7:30 pm *Nicholas O. Davidson, Univ. of Chicago, U.S.A. - Apolipoprotein B editing*
8:00 pm *Jeffrey F. Field, Univ. of Iowa, U.S.A. - Regulation of apolipoprotein B secretion by CaCo-2 cells*
8:30 pm Break
8:45 pm *Robert M. Glickman - Harvard Medical School, U.S.A. - Intestinal apolipoprotein gene regulation*

Tuesday, August 2

Morning: 5. Dietary and therapeutic modification of intestinal lipid absorption
Section leader: Alan B.R. Thomson, Univ. of Alberta, Canada
Dan Quinn, Univ. of Iowa, U.S.A. - Enzyme structure and molecular recognition in cholesterol esterase catalysis and inhibition
Bengt Borgstrom, Univ. of Lund, Sweden - Pancreatic lipase inhibitors
10:10 am Brian R. Krause, Parke-Davis, U.S.A. - Pharmacologic approach to the study of intestinal ACAT, pancreatic cholesterol esterase and pancreatic phospholipase A₂ in cholesterol absorption
10:45 am Break
11:00 am Alfred H. Merrill, Emory Univ., U.S.A. - Digestion of dietary sphingolipids and effects on gastrointestinal physiology
11:35 am Alan B.R. Thomson, Univ. of Alberta, Canada - Dietary modification of intestinal lipid absorption

Evening: 6. New frontiers in intestinal research.
Session Leader: David Y. Hui, Univ. of Cincinnati, U.S.A.

7:30 pm Jeffrey I. Gordon, Washington Univ. Sch. of Med., U.S.A. - The use of transgenic animals in intestinal research

Wednesday, August 3

Morning 7. Lipoprotein structure, packaging and secretion
Session Leader: Roger Davis, San Diego State Univ., U.S.A.
John Wetterau, Bristol-Myers Squibb Co., U.S.A. - The role of the microsomal triglyceride transfer protein in lipoprotein assembly
Donald Puppione, Univ. of California Los Angeles, U.S.A., Factors affecting the composition and structure of chylomicrons
Robert Hamilton, Univ. of California San Francisco, U.S.A. - Apo B core lipidation: a two-step model of lipoprotein assembly
10:45 am Break
11:00 am Tak Yee Aw, Louisiana State Univ., U.S.A. - The role of glutathione in lipid hydroperoxide metabolism by the intestine
11:35 am Roger Davis, San Diego State Univ., U.S.A. - Mechanism of assembly of triglyceride-rich lipoproteins

Evening 8. Neonatal development of intestinal lipid absorption.
Session Leaders: Claude C. Roy, Univ. of Montreal, Canada and Dennis D. Black, Univ. of Chicago, U.S.A.
7:30 pm Emile Levy, Univ. of Montreal, Canada. - New concepts in intestinal lipoprotein synthesis and secretion in the neonate
8:00 pm Deborah C. Rubin, Washington Univ. Sch. of Med., U.S.A. - Ontogenetic analysis of spatial and cellular patterns of apolipoprotein gene expression in normal and isografted rat intestine
8:30 pm Break
8:45 pm Dennis D. Black, Univ. of Chicago, U.S.A. - Regulation of apolipoprotein gene expression in the neonate

Thursday, August 4

Morning 9. Postprandial lipoprotein and apolipoprotein metabolism.
Session Leader: Trevor G. Redgrave, Univ. of Western Australia, Australia.
9:00 am Trevor G. Redgrave, Univ. of West Australia, Australia. - Genetic control of chylomicron transport and metabolism
9:35 am George A. Bray, Pennington Biomedical Research Center, U.S.A. - Peptides affecting fat intake

10:10 am *John M. Dietschy, Texas Southwestern Med. Ctr., U.S.A. - The effect of specific dietary fatty acids on regulation of hepatic LDL receptor activity*
10:45 am *Break*
11:00 am *Patrick Tso, Louisiana State Univ., U.S.A. - Apolipoprotein A-IV is a potent satiety factor*
11:30 am *Alan F. Hofmann, Univ. of California San Diego, U.S.A. - A summary of the conference and future directions*